



CBC (AMERICA) Corp.

# SC101

## 3 Axis Joystick PTZ Controller



Please read the instructions carefully and keep this manual for future reference.

## ❖ **TABLE OF CONTENTS**

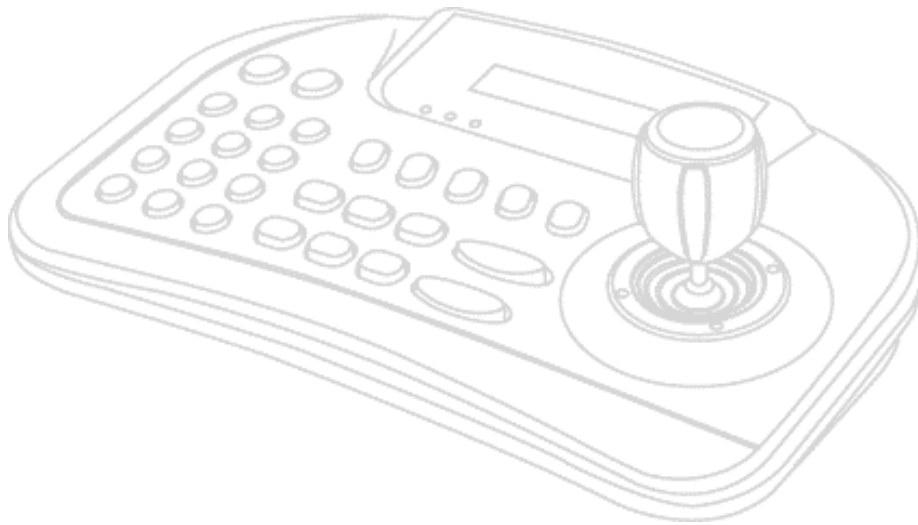
- **CHAPTER 1 INTRODUCTION**

In This Manual.....	07
Features.....	07
Before installation.....	07
Hardware Overview.....	08
System Configuration and Wiring.....	10

- **CHAPTER 2**

- SYSTEM INSTALLATION & TYPICAL APPLICATIONS**

System Installation.....	11
PTZ SETUP.....	11
MAIN SETUP.....	12
JOYSTICK CALIBRATION.....	13
EASY SETTING FUNCTION (E.S.F).....	14
SPECIFICATIONS .....	14



## **:: LIMITATION OF LIABILITY**

THE INFORMATION IN THIS PUBLICATION IS BELIEVED TO BE ACCURATE IN ALL RESPECTS, HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR ANY CONSEQUENCES RESULTING FROM THE USE THERE OF. THE INFORMATION CONTAINED HEREIN IS SUBJECT TO CHANGE WITHOUT NOTICE. REVISIONS OR NEW EDITIONS TO THIS PUBLICATION MAY BE ISSUED TO IN CORPORATE SUCH CHANGES.

## :: LIMITATION OF LIABILITY

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.  
DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT

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## :: CAUTION



The lightning flash with arrow head symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

# **:: IMPORTANT SAFEGUARDS**

## **1. READ AND RETAIN INSTRUCTIONS**

Read the instruction manual before operating the equipment.

Retain the manual for future reference.

## **2. CLEANING**

Turn the unit off and unplug from the power outlet before cleaning. Use a damp cloth for cleaning.

Do not use harsh cleansers or aerosol cleaners.

## **3. ATTACHMENTS**

Do not use attachments unless recommended by manufacturer as they may affect the functionality of the unit and result in the risk of fire, electric shock or injury.

## **4. MOISTURE**

Do not use equipment near water or other liquids.

## **5. ACCESSORIES**

Equipment should be installed in a safe, stable location.

Any wall or shelf mounting accessory equipment should

be installed using the manufacturer's instructions. Care should be used when moving heavy equipment. Quick stops, excessive force, and uneven surfaces may cause the equipment to fall causing serious injury to persons and objects.

## **6. VENTILATION**

Openings in the equipment, if any, are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered.

## **7. POWER SOURCES**

The equipment should be operated only from the type of power source indicated on the marking label.

If you are not sure of the type of power supplied at the installation location, contact your dealer. For equipment designed to operate from battery power, refer to the operating instructions.

## **8. GROUNDING OR POLARIZATION**

Equipment that is powered through a polarized plug (a plug with one blade wider than the other) will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. Do not defeat the safety purpose of the polarized plug.

Alternate Warning: If the equipment is powered through a three way grounding type plug, a plug having a third (grounding) pin, will only fit into a grounding-type

power outlet. This is a safety feature.

Do not defeat the safety purpose of the grounding type plug. If your outlet does not have the grounding plug receptacle, contact your local electrician.

## **9. CORD AND CABLE PROTECTION**

Route power cords and cables in a manner to protect them from damage by being walked on or pinched by items placed upon or against them.

## **10. LIGHTNING**

For protection of the equipment during a lightning storm or when it is left unattended and unused for long periods of time, unplug the unit from the wall outlet.

Disconnect any antennas or cable systems that may be connected to the equipment. This will prevent damage to the equipment due to lightning or power line surges.

## **11. OVERLOADING**

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

## **12. SERVICING**

Do not attempt to service the video monitor or equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

## **13. DAMAGE REQUIRING SERVICE**

Unplug the equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power supply cord or the plug has been damaged.
- B. If liquid has spilled or objects have fallen into the unit.
- C. If the equipment has been exposed to water or other liquids.
- D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage to the unit.
- E. If the equipment has been dropped or the casing damaged.
- F. When the equipment exhibits a distinct change in performance.

## **14. REPLACEMENT PARTS**

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

## **15. SAFETY CHECK**

Upon completion of any service or repairs to the equipment, ask the service technician to perform safety checks to verify that the equipment is in proper operating condition.

## **16. FIELD INSTALLATION**

The installation of equipment should be made by a Qualified service person and should conform to all local codes.

## **:: FCC COMPLIANCE STATEMENT**

**FCC INFORMATION :** THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT.

THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

**CAUTION :** CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS A DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES -003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE A EST CONFORME À LA NORME NMB-003 DU CANADA.

## **:: CE COMPLIANCE STATEMENT**

**WARNING** THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

# ⌘ CHAPTER 1. INTRODUCTION

## In This Manual

**Overview** - This manual covers the operation of the WTX-1200A keyboard.

## SC101 Keyboard

This remote keyboard is an accessory for PTZ dome camera, etc  
It allows the user to control from 1 to 255 cameras.

- Features**
- Controls from 1 ~ 255 cameras.
  - Multiple protocol supported in each channel (WDS,WCY, CYN, WSL, Pelco).
  - RS 485/RS-422 communication (Tx : 3 port , Trx :1 port).
  - Programmable user preferences. (preset, tour, group, etc.).
  - Built-in 3-Axis proportional joystick
  - Easy upload programmed data via serial communication port of PC.
  - Built-in 2 lines character LCD.
  - User password support.
  - Designed for desktop use
  - programmable transmission speed for each ID. (2.4~57.6kbps)

*Note: units should be set to the communication protocol and the same baud rate.*

## Before installation

This keyboard system must be installed by qualified service and installation personnel.  
Perform the following steps to install the keyboard system.

- Unpack all components.
- Place the keyboard in a convenient location.

*Note: Carefully and completely read the manuals for each piece of equipment before attempting to install and connect the equipment.*

- Decide on the configuration method.
- Use one of the following sections to configure the wiring.

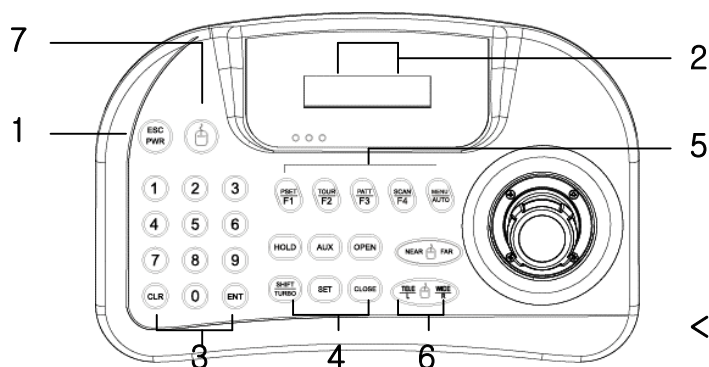
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**Hardware Components** - This remote keyboard contains easy to use control keys on the front and simple input and output connectors on the back

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- The unit provides the primary operator interface. Most operations are one or two button presses. The following Table contains a description for each buttons on the keyboard and port of cable connection. Use Figure 1 and Figure 2 as a reference.









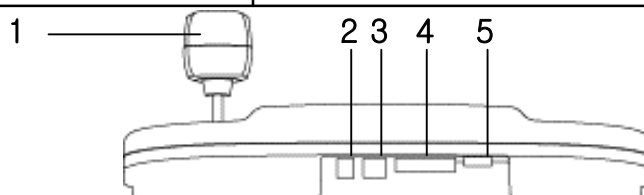
< Figure 1 >

Number	Button	Description
1	ESC / POWER 	Pressing the ESC/POWER button enters the Power on/off or escape key. Right description led on(red). Pressing it again exits the POWER OFF. (Push the  1 (about 2~3 seconds) and then POWER OFF)
2	LCD DISPLAY 16 x 2 Graphic display	Displays Camera ID, Protocol, Function status, General status, etc.
3	Number 	Camera ID setting value change, PTZ setup(1+  ), Main setup(2+  )
4	Controller Function keys  	Hold : System locking (Unlocking : Input the Pass word 4 digit ****) SHIFT/TURBO : SHIFT-Key for special function (Customize) / TURBO -High Speed AUX : External equipment on/off SET : Ptz and main setup (1 +  ), (2+  ) IRES CLOSE : Camera Iris close IRIS OPEN : Camera Iris open
5	Function keys 	F1 ~ MENU/AUTO : Function Keys (Preset, Tour, Pattern, Scan, Auto). MENU :Used for Camera (Pan/Tilt) Menu adjustment.


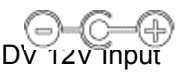




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Control buttons (continued)		
Number	Button	Description
6		Camera Focus control
		Camera Zoom control
7	*Before the mouse function use, you mouse be usb driver installed ( <a href="http://www.goodome.com/beta/english/e_download.php">http://www.goodome.com/beta/english/e_download.php</a> (filename:cdm20.zip))	
	 Key operation method	Push a mouse button(KEY 2~3 Seconds Push)
	Description	Mouse character description will be display <span>[WDS PEL-D 2.4K] ID : 001</span> <span>MOUSE</span>
	Reference key button	 = Left button of Computer mouse  = Right button of Computer mouse  = Scroll key of Computer mouse ( Middle key). e) (Simultaneously near far key push and joystick mov
	DVR Connection method	Push a mouse button(KEY Shortly Push) <span>[WDS PEL-D 2.4K] ID : 001</span> ↔ <span>[DVR WKEY 2.4K] ID : 001</span>
	Description	



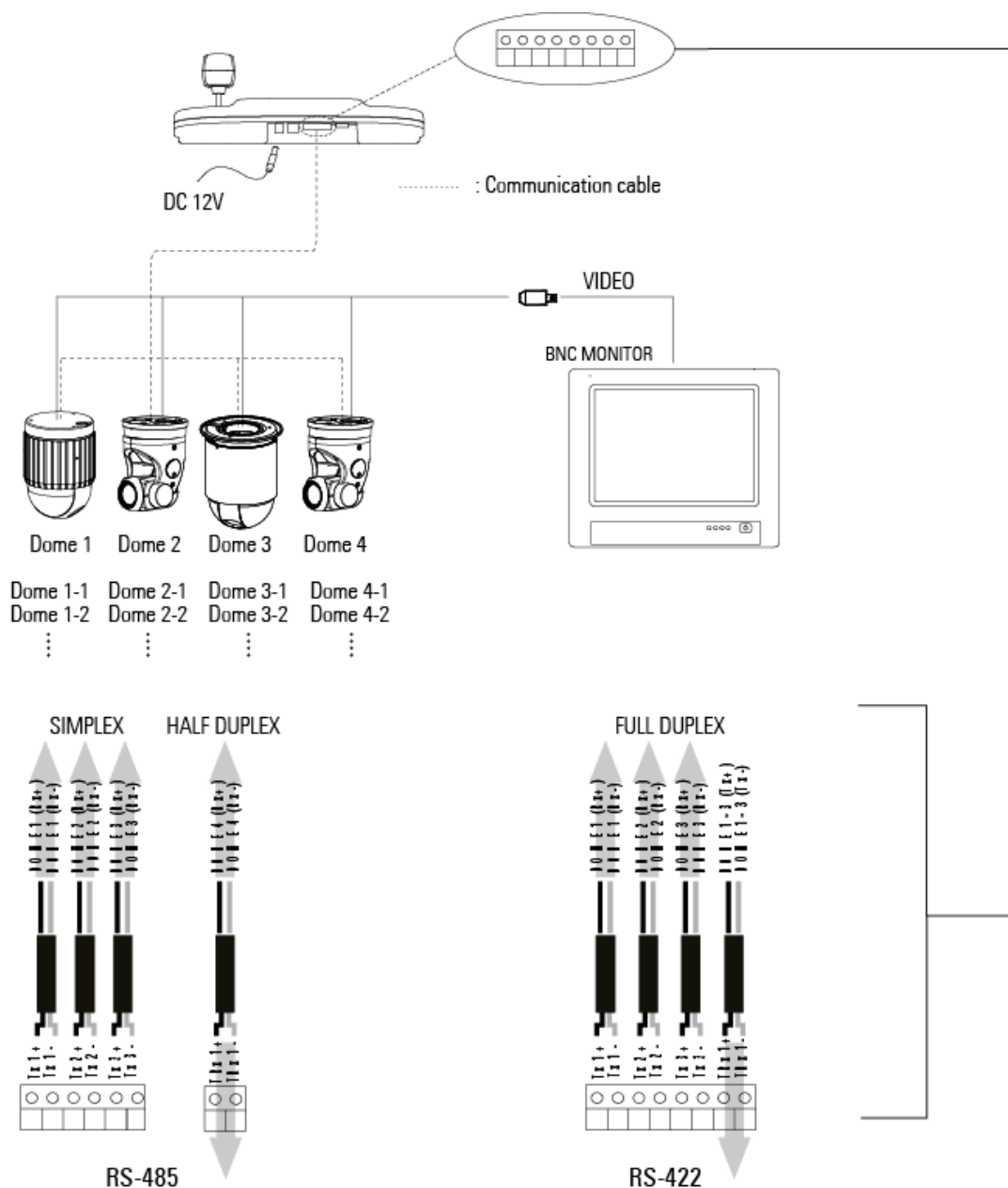
< Figure 2 >

Number	Button	Description
1	 Joystick	Telemetry Joystick Bit allows precise control of Pan/Tilt/Zoom
2	 DV 12V Input	DC 12V Input, 140mA
3	 USB PORT	Universal Serial Bus Port, USB Mouse function (External Equipment communication port)
4	 TRX 1X3 1X2 1X1 RS-485	RS-485/RS-422 communications. (Tx/Rx : 3 port , Trx :1 port) 9
5	Program	Download connector (For Program Update)

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## 

**Basic Installation** - Use the Keyboard Configuration when only one keyboard is connected to the controlled units.  
 Connect the RS-485 output port of Remote keyboard to RS-485 input port of the first controlled unit using the terminal block




<RS-422/RS-485 Connection Diagram>

## **CHAPTER 2.** **SYSTEM INSTALLATION & TYPICAL APPLICATIONS**

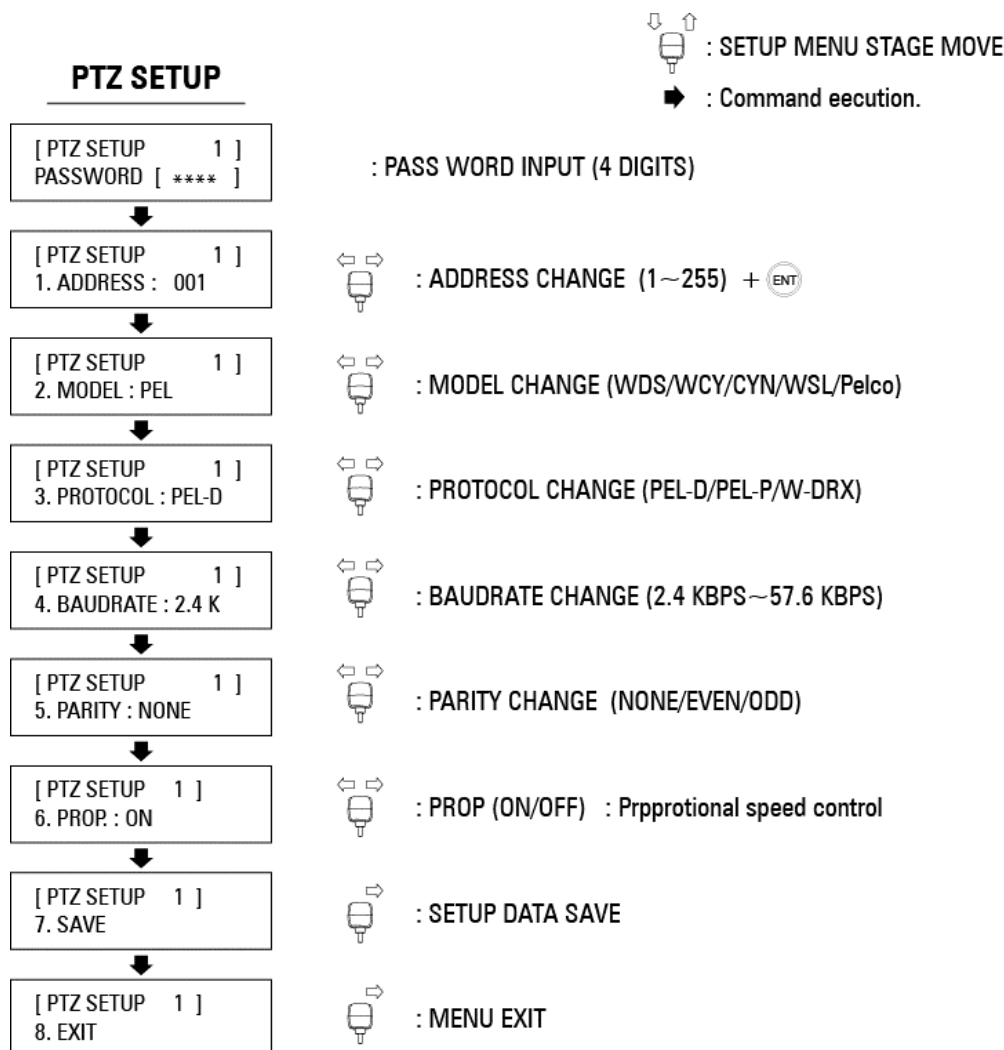
### System Installation

**Keyboard Installation** - Before you start connecting the keyboard equipment to your system, make sure the units to be controlled are completely installed and everything is working correctly. Before use of this keyboard, you should set the protocol and baud rate (2.4~57.6kbps) in the PTZ SETUP mode. Use the following steps to set the communication protocol and baud rate.

### PTZ SETUP


**PTZ SETUO** - PTZ Setup mode, select 1+ , (2~3 seconds) setup screen allows you to change each device setting.

**Note:** *The baud rate must be the same between the controlled unit and the keyboard.*

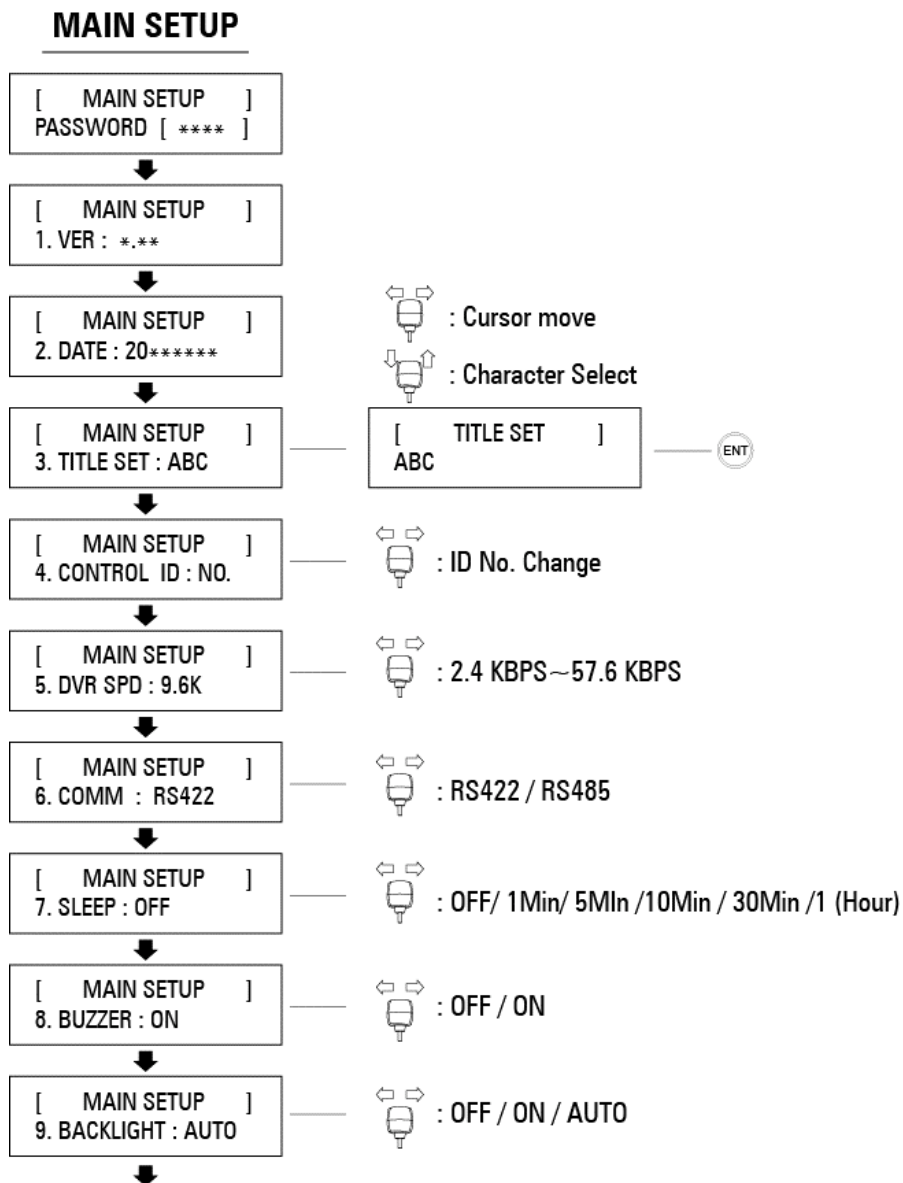


## **CHAPTER 2.** **SYSTEM INSTALLATION & TYPICAL APPLICATIONS**

### MAIN SETUP

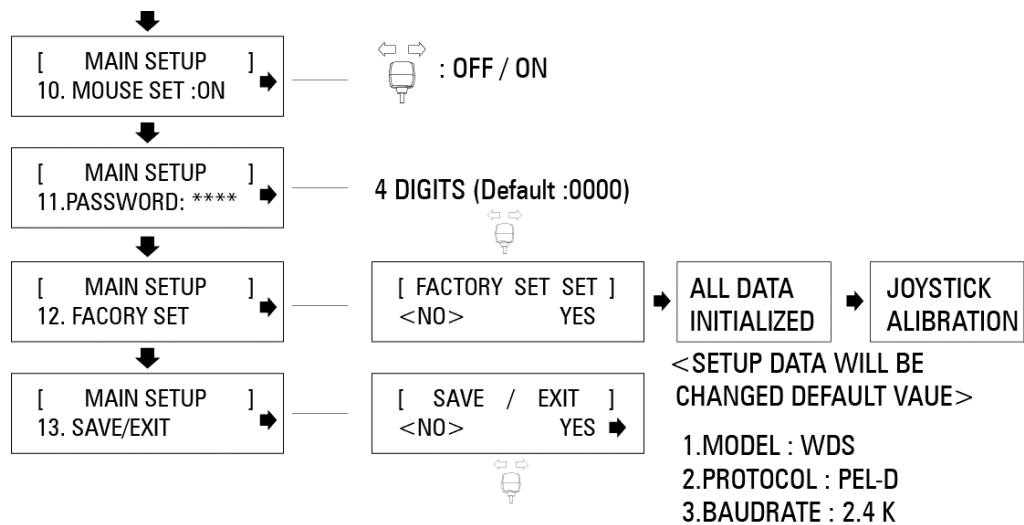
**MAIN SETUP** - Main Setup mode, select 2+ . (2~3 seconds)  
 setup screen allows you to change each device setting.

*Note: The baud rate must be the same between the controlled unit and the keyboard.*



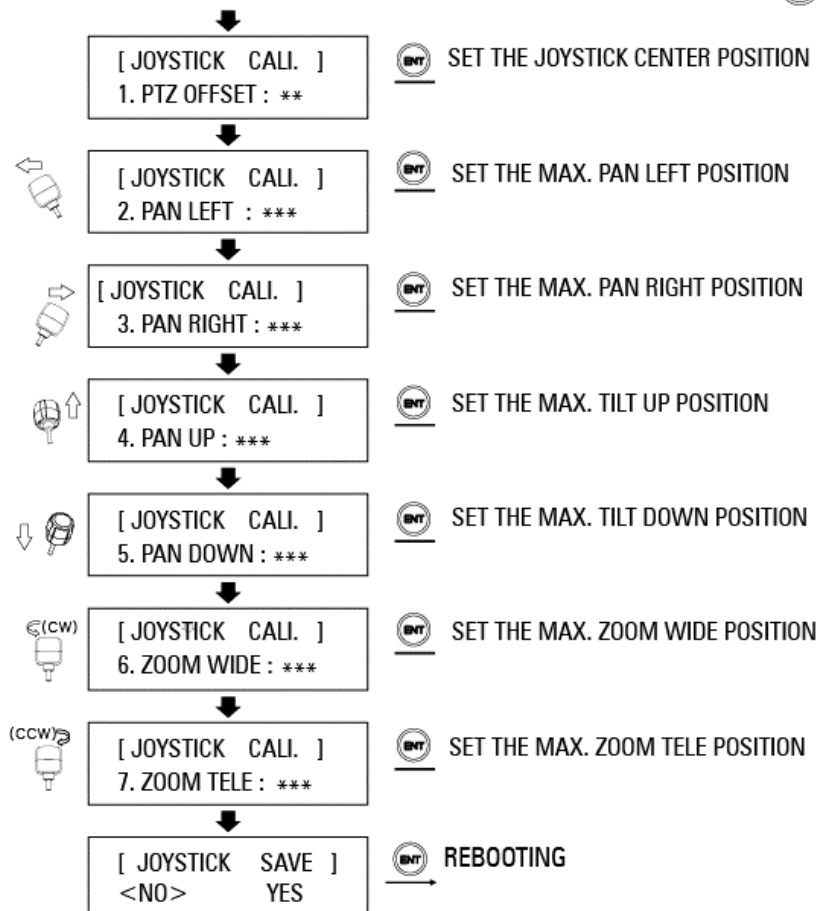


## CHAPTER 2. SYSTEM INSTALLATION & TYPICAL APPLICATIONS




## JOYSTICK CALIBRATION

It is for the keyboard to set the Max. movement of joystick  
CALIBRATION METHOD : JOYSTICK MOVE (POSITION VALUE) +

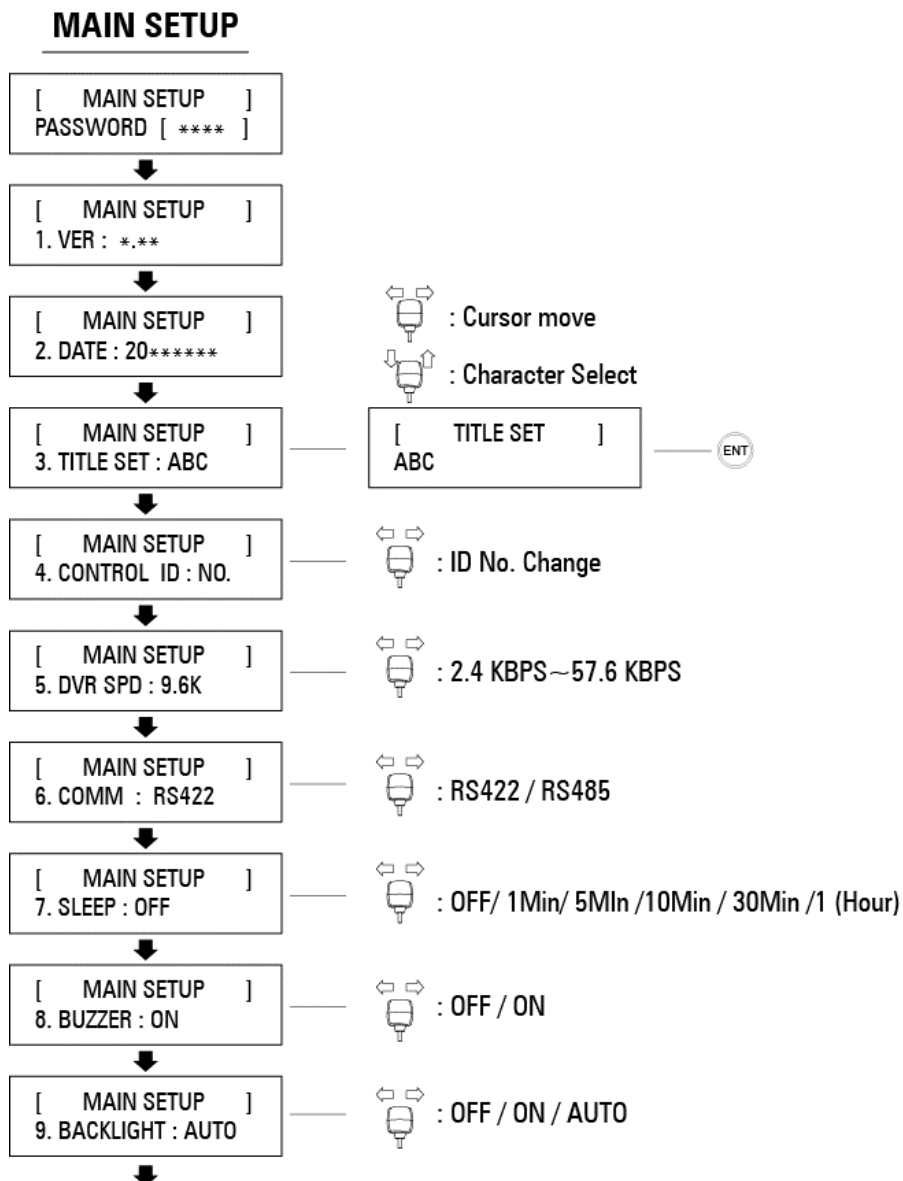


## **CHAPTER 2.** **SYSTEM INSTALLATION & TYPICAL APPLICATIONS**

### EASY SETTING FUNCTION (E.S.F)

**MAIN SETUP** - Main Setup mode, select 2+ . (2~3 seconds)  
 setup screen allows you to change each device setting.

*Note: The baud rate must be the same between the controlled unit and the keyboard.*



## **CHAPTER 2.** **SYSTEM INSTALLATION & TYPICAL APPLICATIONS**


### EASY SETTING FUNCTION (E.S.F)


EASY SETTING FUNCTION (Number key + Function key)

Number key + PSET/TOUR/PATT/SCAN/ E.S.F


is current position data (pan, tilt, focus, zoom data) save or call of Dome memory


DATA SAVE(SET)

② +  (PSET button 2 seconds push) → Current Position Saved Preset No 2

③ +  (TOUR button 2 seconds push) → TOUR MENU CALL OF DOME

DATA CALL(GOTO)

② +  (PSET button push) → No 2 Preset position execution

③ +  (TOUR button push) → No 3 Tour Execution of DOME

### SPECIFICATIONS

Model	SC101	
Keyboard Communication	Interface: RS-485 (Tx 3 port, Trx 1 port) P	
	an/Tilt operating distance :4000 ft No 24 AWG wire	
	Protocol: Multiple (Pelco-D, etc. ) (Baud rate selectable)	
Connector Type Date	TERMINAL BLOCK(8p)	
Keyboard Keypad	Rubber button	
	Numeric keypad and camera function key	
Joystick	Stick 3-axis, variable speed with zoom	
Input Valtage	12V DC or 9V batt (battery mode)	
Power Consumption	Max.140mA	
LCD Display	Graphic display : 16 * 2 Graphic display	
Operating Temperature	0 to 45	
Humidity	10% -70 % non-condensing	
Dimension & Weight	280(W) x 174(D) x 92(H), Net : 0.7 Kg Gross: 1.7Kg	
Packing include	KEYBOARD, ADAPTOR	
	Packing include : BATT 9V(Alkaline), USB CABLE, MANUAL, TERMINAL BLOCK(8p)	15

## MEMO

